



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**  
**Patent Examining Operations**

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Applicant(s): Koenig et al

Serial No: 09/645,835

Art Unit: 1653

Filed: 25 August 2000

Examiner: Kam, C.

TITLE: PNEUMOCOCCAL PROTEIN HOMOLOGS AND FRAGMENTS FOR  
VACCINES

Docket No.: 469201-493

Commissioner for Patents  
Washington, D.C. 20231

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**AMENDMENT UNDER 37 C.F.R. 1.111**

Sir:

Regarding the Office Action dated 3 April 2001, Applicant responds as follows:

Please amend the application as follows:

In the Specification:

At page 28, please amend the paragraph beginning at line 13, to read as follows:

ai  
Sequence comparisons of the Sp36 encoded protein sequence against the publicly available GenBank sequence database (including the unfinished microbial database) revealed two highly homologous amino acid sequences. One of these was a predicted amino acid sequence from the *S. pyogenes* genome. This predicted polypeptide comprised 825 amino acid residues (MW = 92,616 Da) that was 25.1% identical to the Sp36 amino acid sequence from pneumococcus serotype 4 but maintained the 5 histidine